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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,621	02/25/2004	David M. Recd	03008	2048
7590 08/20/2007 Martha Ann Finnegan, Esq.			EXAMINER	
Cabot Corporat	ion		LIAO, DIANA J	
157 Concord R Billerica, MA (			ART UNIT	PAPER NUMBER
<b></b> ,			1709	·
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·	Application No.	Applicant(s)			
	10/786,621	REED ET AL.			
Office Action Summary	Examiner	Art Unit			
	Diana J. Liao	1709			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period was railure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be vill apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO	ON. e timely filed  rom the mailing date of this communication.  DNED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 25 Fe     This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	•			
Disposition of Claims		•			
4) Claim(s) 1-63 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-63 are subject to restriction and/or each	wn from consideration.				
Application Papers		•			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. ion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		• •			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:	I Date			

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## **DETAILED ACTION**

# Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-22, 40-53, and 59-63, drawn to a valve metal oxide of varying compositions and purities, classified in class 423, subclass 594.170.
  - II. Claims 23-39, drawn to a method for reducing a valve metal oxide to form an oxygen-reduced valve metal oxide by allowing for oxygen transfer from niobium oxide, classified in class 423, subclass 594.170.
  - III. Claims 55-58, drawn to a capacitor or capacitor anode, classified in class 174, subclass 322.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and (I or III) are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product, a metal oxide, can be made using methods other than reducing a starter metal oxide in an atmosphere and at a temperature that allows the transfer of oxygen from niobium oxide. For example, oxides can be made through the use of acids or oxygen plasma.
- 3. Inventions I and III are related as mutually exclusive species in an intermediatefinal product relationship. Distinctness is proven for claims in this relationship if the

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intermediate product is useful to make other than the final product, and the species are patentably distinct (MPEP § 806.05(j)). In the instant case, the intermediate product is deemed to be useful as a final product other than a capacitor or capacitor anode and the inventions are deemed patentably distinct because there is nothing on this record to show them to be obvious variants.

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Invention I, which is a composition of some sort of granulated or powdered oxide, is an intermediate to form invention III, which is a capacitor using this material. Granulated or powdered oxides are a large group of materials that can be used for many purposes, such as catalysts, polishing material, and a protective barrier for pure metals. In addition, capacitors can be made from a multitude of materials, usually characterized by which dielectric is used.

- 4. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
  - (a) the inventions have acquired a separate status in the art in view of their different classification;
  - (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
  - (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
  - (d) the prior art applicable to one invention would not likely be applicable to another invention;
  - (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

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Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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**Election of Species Requirement** 

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5. Upon electing a distinct invention amongst the group I-III, if the applicant elects I

or III, the applicant is further required under 35 U.S.C. 121 to elect a single species for

prosecution on merits to which the claims shall be restricted if no generic claim is finally

held to be allowable. This application contains claims directed to the following

patentably distinct species:

(i) a valve metal suboxide powder comprising a primary suboxide phase purity of

at least 75% by weight and having a BET surface area of from 0.5 to 10 m<sup>2</sup>/g.

(claims stating the composition of claim 1: 1-22, or 55-56)

(ii) a valve metal oxide having an atomic ratio of valve metal to oxygen of 1: less

than 2.5, wherein said valve metal oxide comprises granules having a size of

from about 5 microns to about 1,000 microns. (claims stating the composition of

claim 40: 40-53 and 59-63, or 57-58)

The species are independent or distinct because the potentially novel aspects of (i)

are independent of the potential novel aspects of (ii). Prior art found on a metal oxide

with a certain ratio of metal to oxygen ions of a granulated form, will not necessarily by

any means also discuss a suboxide phase purity and surface area. A powder also often

has different properties than a granulation.

Applicant is advised that a reply to this requirement must include an identification

of the species that is elected consonant with this requirement, and a listing of all claims

readable thereon, including any claims subsequently added. An argument that a claim

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is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

6. Upon electing a distinct invention amongst the group I-III, if the applicant elects II, the applicant is further required under 35 U.S.C. 121 to elect a single species for prosecution on merits to which the claims shall be restricted if no generic claim is finally held to be allowable. This application contains claims directed to the following patentably distinct species:

This application contains claims directed to the following patentably distinct species of granulation methods:

- (i) wet granulating processes (claims 27, 28, 33)
- (ii) dry granulating (claim 29)

The species are independent or distinct because they are mutually exclusive methods of granulation.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

# Rejoining Practice

7. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the

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requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

#### Joint Inventors

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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## Conclusion

No claims have been allowed or rejected at this time. All pending claims are subject to a restriction or election requirement.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diana J. Liao whose telephone number is 571-270-3592. The examiner can normally be reached on Monday - Friday 7:30am to 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on 571-272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DJL VICKIE Y. KIM SUPERVISORY PATENT EXAMINER